**Earth Science Plate Tectonics Outline (Ch. 10 Outline)**

***AS YOU READ, RESPOND TO THE FOLLOWING:***

*Vocabulary*: **Define in your own words**

Continental drift-

mid-ocean ridge-

sea-floor spreading-

paleomagnetism-

Lithosphere-

Asthenosphere-

Ridge push-

Slab pull-

Rifting-

Terrane-

***Respond to the following questions/prompts****:*

Who was Alfred Wegener? Why is he significant to science? Explain. (2 pts)

What are the three sources of evidence of continental drift? Explain each source of evidence in detail. (6 pts)

What are the three major types of plate tectonic boundaries? Explain how plates interact for each type of plate boundary and give an example of a location where this plate boundary is found. (6 pts)

How does the supercontinent cycle work? Explain. (2 pts)

How are earthquakes and volcanoes related to tectonic plates? Explain how each natural disaster is related to plate tectonics. (2 pts)

At which plate tectonic boundary do most mountain ranges form? Why? Explain. (2 pts)

***ABOUT THE READING:***

Write three things that you learned about Plate Tectonics*:*

***Make sure to write a full sentence.***

*Example: I learned that the magnetic patterns in rocks adjacent to divergent plate boundaries in the sea are "captured" as they come to the surface; this provides the best evidence of continental drift. .*

*1.*

*2.*

*3.*

***Assigned work****: Creat a demonstration for you classmates that communicates the differences between the types of plate tectonic boundaries. Also, provide a discussion on 2 locations that are examples of each type of plate tectonic boundary. You should use Prezi or Keynote to build a short presentation that explains how each location is affected by that specific type of plate tectonic boundary. Presentation is worth 10 pts and demonstration is worth 10 pts. Further details on grading will be provided in class.*